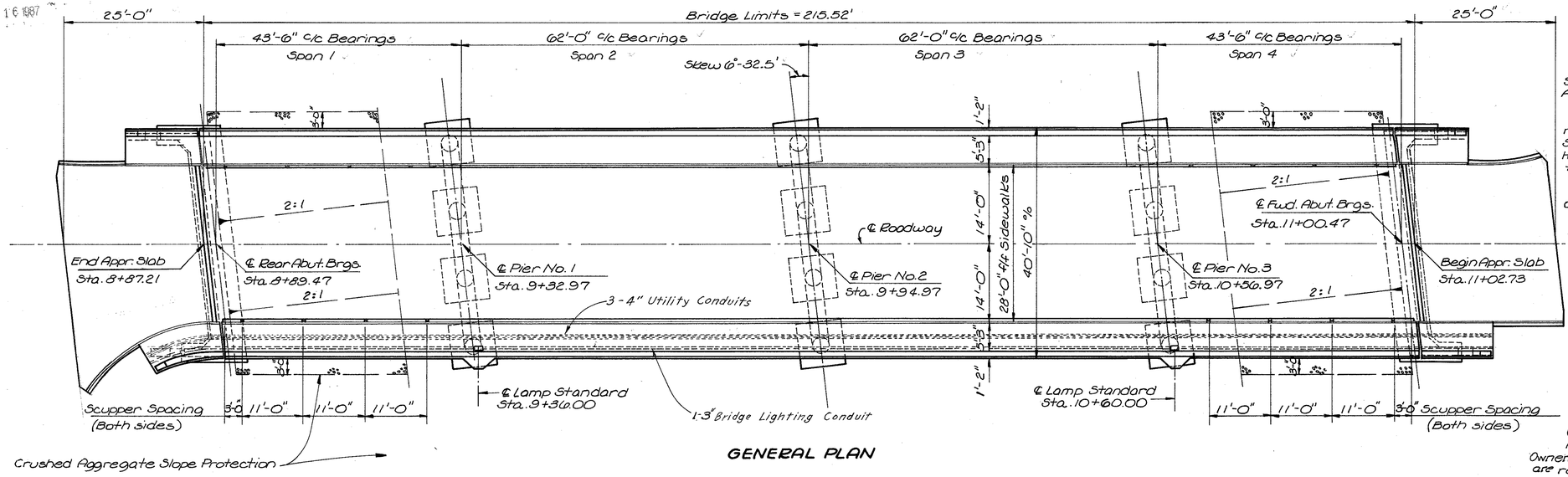
MICROFILMED
DEC 16 1987

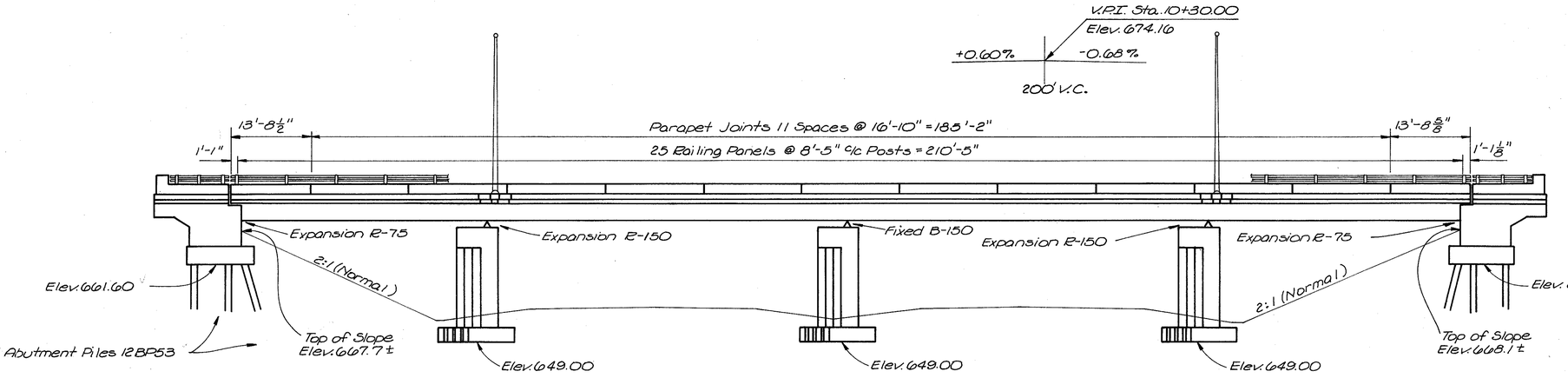
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

180
204

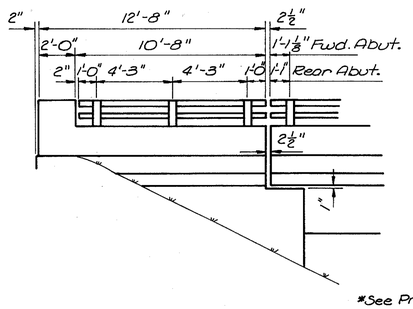
LAK - 44 - 3.79



GENERAL PLAN



ELEVATION



*See Proposal Note

TYPICAL ABUTMENT RAILING DETAIL

GENERAL NOTES

REFERENCE shall be made to Standard Drawing CSB-2-56, Sheets 2 & 3, revised 2-2-59; RB-1-55, revised 2-2-59; and AR-1-57, revised 12-12-60.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

PILES shall be driven to a minimum bearing capacity of 25 tons per pile.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 2.5 tons per sq. ft.

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress upgrade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.

WELDING of structural steel shall be Class "A" except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop. Class "B" welds are shown thus: B

UTILITY LINES: All labor and expense involved in relocating the affected utility lines shall be borne by the Owners except as otherwise shown. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

BEAM WEB WELDS: Butt-welds in webs of beams may have convex reinforcement in accordance with Sect. S-7.22. Finishing flush by grinding is not required.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine, Sec. S-1.23.

BRIDGE LIGHTING DETAILS: Reference shall be made to Bridge No. LAK-44-0489 for bridge lighting details. Lump sum item includes grounding system, lamp standards, pull boxes, and other incidentals as shown on Sheet No. 178.

SHOP PAINTING STEEL: The surface preparation of all steel, requiring shop painting as per plans and specifications, shall be accomplished by blast cleaning or power tool cleaning, except as noted in the specifications regarding the use of chromate primers.

N

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super.	Abuts	Piers	Gen'l	As Built	
E-2	436	Cu. Yds.	Unclassified excavation		236	200		CO.3 +29	465
S-1	308	Cu. Yds.	Class "C" concrete, superstructure	308				CO.7 +3	311
S-1	90	Cu. Yds.	Class "C" concrete, pier caps and columns			90			
S-1	71	Cu. Yds.	Class "E" concrete, pier footings			71			
S-1	173	Cu. Yds.	Class "E" concrete, abutments		173				
S-4	105,422	Lbs.	Reinforcing steel	71,813	12,230	21,379			
S-7	226,250	Lbs.	Structural steel	226,250					
S-8	226,250	Lbs.	Field painting of structural steel	226,250					
S-14	475.86	lin. ft.	Railing (aluminum rail and supports, concrete parapet and end posts, Type "C")	425.19	50.67				
S-16	Lump	Sum	First test pile				Lump		
S-18	600	lin. ft.	Steel piles, ~~12 BP53~~ ~~10 BP42~~		600			CO.3 -39	561
S-25	Lump	Sum	Electric lighting system, as per plan				Lump		
S-25	236	lin. ft.	3" Electric conduit and fittings (Fiber)	210	26				
S-29	31	Cu. Yds.	Porous backfill		31				
S-29	16	each	Scuppers	16					
Special *	308	each	Water-reducing, set-retarding admixture	308				CO.7 -308	0
I-10	361	sq. yds.	Crushed aggregate slope protection				361	CO.10 -74	287

ADDITIONAL ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super.	Abuts	Piers	Gen.
S-25	6	Lin. Ft.	2" electric conduit and fittings (metal)	6			
S-25	708	Lin. Ft.	4" electric conduit and fittings (fiber)	708			

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

GENERAL PLAN & ELEVATION, NOTES & ESTIMATED QUANTITIES

Bridge No. LAK-44-0505
under JACKSON ST.
LAKE COUNTY S.R.44 RELOC.
Sta. 283+50.73

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.J.E.	J.J.E.	MKH	J.V.G.	BFG	7-24-61	6/5/62

AB Revised As-Built CAM 2-19-64